

Monitoring Data Record

Project Title: U-2510A NC 16 COE Action ID: 2007- 700-360
Stream Name: Six Mile Creek DWQ Number: 07-0221
City, County and other Location Information: NC 16 @ the Mecklenburg and Union County
Line, (Sta. 124+00-L-)
Date Construction Completed: October 29, 2009 Monitoring Year: (1) of 2
Ecoregion: _____ 8 digit HUC unit 03050103
USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 40' Urban or Rural: Urban Watershed Size: _____
Monitoring DATA collected by: M. Green Date: 9/20/10

Applicant Information:

Name: NCDOT - Roadside Environmental Unit
Address: 1425 Rock Quarry Rd., Raleigh, NC , 27610
Telephone Number: (919) 861- 3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____
Address: _____
Telephone Number: _____ Email address: _____

Project Status: _____

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):

Permit States: A four (4) barrel box culvert will be replaced by a bridge at Station 124. Removal of the culverts shall not cause destabilization of the stream at this location. If the stream becomes destabilized due to the culvert removal and/or the construction of the bridge, NCDOT will be required to stabilize the stream. DOT shall monitor the stream crossing for a period of 2 years, or one bankfull event, whichever comes first. The monitoring shall consist of photographs submitted to the DWQ for the section of stream immediately upstream, downstream as well as the actual crossing. A site visit with the DWQ can be used to fulfill the annual monitoring requirement. If at anytime during the monitoring period DWQ determines the stream is unstable due to the authorized impact, corrective action may be required along with a corresponding modification to the 401 Water Quality Certification. NCDOT staff shall contact DWQ staff for authorization prior to the installation of any measures within the stream.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 2 photo point locations with 2 photos looking upstream and downstream at each location.
Dates reference photos have been taken at this site: 9/20/10

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map with photo point locations is attached to this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action: _____

ADDITIONAL COMMENTS: The streambanks up and downstream of the bridge are stabilized with herbaceous and woody vegetation.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Six Mile Creek's channel is stable for the Year 1 evaluation.

Date Inspected 9/20/10	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Section 4. DEBIT LEDGER

The entire Six Mile Creek stream mitigation site was used for the U-2510A project to compensate for unavoidable stream impacts.

Six Mile Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)

Year 1 – September 2010

Six Mile Creek

